Stampare su carta intestata del CdS

General information		
Academic subject	**Innovative and sustainable vegetable cultivation**	
Degree course	IDEAS	
Academic Year	2021-2022	
European Credit Transfer and Accumulation System (ECTS)		3
Language	English	
Academic calendar (starting and ending date)	October 18th 2021 – January 28nd 2022	
Attendance		

Professor/ Lecturer	
Name and Surname	Angelo Signore
E-mail	angelo.signore@uniba.it
Telephone	+39 080 5443097
Department and address	Department of Agricultural and Environmental Science via Amendola 165/A 70126 – Bari
Virtual headquarters	
Tutoring (time and day)	Flexible, but better to contact before (by email, phone, personally)

Syllabus	
Learning Objectives	
Course prerequisites	General knowledges of agronomy
Contents	• Soilless systems • Biofortification • Non-conventional vegetables • Microgreens • Artificial lightning • Herbaceous grafting • Solarization • Anaerobic soil disinfestation • Fertigation • Biostimulants
Books and bibliography	Book: "Orticoltura. Principi e pratica" Reviews on the topics of the course
Additional materials	Electronic material given by the professor

Commentato [AS1]: Ho letto nella guida che si trova nella scheda SUA, che non ho.

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
30	20	10	
ECTS			
3	2.3	0.7	
Teaching strategy			
	The lessons will be done by the means of power point, and with the support of didactic videos, either online or offline. The frontal lessons will be integrated		

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	with practises, and all the course material will be available (and downloadable) from an online platform.
Expected learning outcomes	
Knowledge and understanding on:	o Innovative techniques aiming at decreasing the impact of vegetables' crops (soil-less systems, solarization, herbaceous grafting, anaerobic soil disinfestation) o Agronomic techniques to improve the quality of vegetables (biofortification) o Definition of "new" vegetables' products (microgreens, non-conventional vegetables, agrobiodiversity) o Artificial lightning (by the means of LEDs) to improve the nutritional traits of vegetable and to extend their cultivation all year round
Applying knowledge and understanding on:	o Reduce the impact of vegetables' crops on environment o Improve nutritional traits o Define new categories of products o Manage soil-less systems o Fertigation management o Use of biostimulants
Soft skills	• Making informed judgments and choices o Manage in a sustainable way a vegetables' crop by using the most advanced techniques for their production o Define new commercial categories by using agrobiodiversity knowledge and innovative systems for their cultivation • Communicating knowledge and understanding o Inform the farmers about the most sustainable way of cropping o Guide the farmer to the definition of the products that may face the market's requests • Capacities to continue learning o Implement the knowledge acquired during the course to the different situations that may face by analysing the farmer's needs and searching for the most appropriate solutions

Assessment and feedback	
Methods of assessment	Oral
Evaluation criteria	• Knowledge and understanding o Focus on some topics of the course • Applying knowledge and understanding o Integrate the knowledge of the different topics to manage a vegetable cultivation (e.g. the solarization and the environment in which is possible to be applied, etc.) • Autonomy of judgment o Verify if the student is able to formulate a judgment regarding the acquired knowledge on different scenarios • Communicating knowledge and understanding o Verify if the student is able to explain in simple word why a farmer, or a technician, should apply his/her suggestions • Communication skills o Property of expression, ease of language for technical terms • Capacities to continue learning o The student would be able to apply new insights to what has learned during the course?

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Criteria for assessment and attribution of the final mark	The final grade is awarded out of thirty. The exam is passed when the grade is greater than or equal to 18/30.
Additional information	